

# EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:  
**MEDB000004X**  
Revision No:  
**2**

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED), issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Authority. This Certificate is issued by DNV GL AS under the authority of the Government of Norway.

## This is to certify:

### That the Rigid/inflated rescue boats

with type designation(s)  
**Narwhal SV-480**

Issued to

**NARWHAL BOATS, S.L.**  
**Porriño, Pontevedra, Spain**

is found to comply with the requirements in the following Regulations/Standards:

Regulation **(EU) 2019/1397,**

**item No. MED/1.43. SOLAS 1974 as amended, Regulation III/4, III/21, III/31, III/34 &X/3  
LSA Code, 2000 HSC Code 8, IMO MSC/Circ.1006 and ISO 15372:2000**

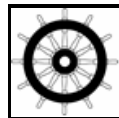
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2025-07-16.**

Issued at **Høvik** on **2020-07-17**

DNV GL local station:  
**NB/CMC Team West**

Approval Engineer:  
**Tessa Bieber**



Notified Body  
No.: **0575**

for **DNV GL AS**

**Roald Vårheim**  
**Head of Notified Body**



The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.

This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV GL AS of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.

Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV GL AS, its parent companies and subsidiaries as well as their officers, directors and employees ("DNV GL") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Job Id: **344.1-000329-9**  
Certificate No: **MEDB000004X**  
Revision No: **2**

## Product description

NARWHAL SV-480 is a rigid/inflatable rescueboat with lifting sling.

Length over all, hull, max: 4.80 m  
Draught: 1.00 m  
Beam overall, including fenders, Bmax: 2.10 m  
Weight of boat type, fully equipped: 473 kg  
Weight of boat type, fully manned (82.5 kg/person): 968 kg

Lifting equipment: 4 polyester slings  
Hull material: GRP/Polyurethane foam

Propulsion system: Outboard engine  
Engine types: Yamaha 40 hp, 50 hp, 60 hp and 75 hp

Bollard pull (Yamaha 40 hp, propeller (11 1/8 x 13) x 3): 2.2 kN  
Bollard pull (Yamaha 40 hp, propeller (11 5/8 x 11) x 3): 2.6 kN  
Bollard pull (Yamaha 40 hp, propeller (11 3/4 x 10) x 3): 3.0 kN  
Bollard pull (Yamaha 50 hp, propeller (11 1/8 x 13) x 3): 2.4 kN  
Bollard pull (Yamaha 50 hp, propeller (11 5/8 x 11) x 3): 3.1 kN  
Bollard pull (Yamaha 50 hp, propeller (11 3/4 x 10) x 3): 3.9 kN  
Bollard pull (Yamaha 60 hp, propeller (11 1/8 x 13) x 3): 3.7 kN  
Bollard pull (Yamaha 60 hp, propeller (11 5/8 x 11) x 3): 4.6 kN  
Bollard pull (Yamaha 60 hp, propeller (11 3/4 x 10) x 3): 5.3 kN  
Bollard pull (Yamaha 75 hp, propeller (13 1/2 x 15) x 3): 6,3 kN

## Application/Limitation

Approved engine power: 29.4 - 55.2 kW

Number of persons, max: 6  
Maximum load of persons 82.5 kg: 495 kg  
Approved colour: Orange

Rescue boat equipment and marking/instructions to be inspected after installation onboard the ship. Equipment shall comply with LSA Code and IMO Res. MSC.81(70).

The design assessment is based on IMO Res. MSC.48(66) as amended by IMO Res. MSC.207(81), IMO Res. MSC.218(82), IMO Res. MSC.272(85) and IMO Res. MSC.320(89).

Production and installation testing shall be carried out according to IMO Res. MSC. 81(70), Part 2.

## Type Examination documentation

Basis for approval:  
NARWHAL Technical Report and Drawings, Report on Raw Materials and Tests and Boat Tests. 2000-07-27  
DNV Test an Evaluation Report  
Drawing No. 2389-2005-AQ-BAR-ENAC "DETALLE FIJACIÓN ASIENTOS SV-480C" 2006-06-23  
Drawing No. 2389-2005-AQ-BAR-ENAC "POSICIÓN DE LOS PASAJEROS Y HERIDO EN SV 480-C" 2006-06-23  
Reports from prototype tests witnessed by DNV 2006-03-31 and 2006-06  
Seating Space Test according to Res. MSC.226(82) witnessed by DNV dated 2008-11-27  
Liferaft Towing Test witnessed by DNV 2008-11-27

Job Id: **344.1-000329-9**  
Certificate No: **MEDB000004X**  
Revision No: **2**

Endurance, Speed & Fuel Consumption Test witnessed by DNV	2008-11-27
Drawing Towing and hoisting arrangement	2014-03-21
Drawing Towing and hoisting arrangement 2	2014-03-21
Calculations sling arrangement SV-480	2014-03-21
Structural analysis of hoisting points to laminate, ISONAVAL Naval architecture office- surveyors, Barcelona, Spain	2014-03-21

### Tests carried out

Tests are documented in accordance with recommendation on testing of Lifesaving Appliances, IMO Res. MSC 81(70), Part 1 as amended by IMO Res. MSC.226(82), IMO Res. MSC.274(85), IMO Res. MSC.321(89), IMO Res.323(89), IMO MSC/Circ.1006 and ISO 15372:2000.

### Marking of product

The product is to be indelibly marked with name and address of manufacturer, boat model and serial number, month and year of manufacturer, number of persons approved for and operational restrictions, if any, according to LSA code item 4.4.1.2 and the mark of conformity (see page 1).

List of rescue boat equipment to be posted in the boat.